Index of Claims



Application No.

10/674,488

Examiner

Applicant(s)

MATSUOKA ET AL
Art Unit

Evelyn Huang

Date

1625

Rejected

Allowed

(Through numeral) Cancelled

Claim

Restricted

Non-Elected N

Interference

Appeal Α

0

Objected

|            |                  | _                 |              |   |                |          |          | _ | י        |          |          | _        |          |   |
|------------|------------------|-------------------|--------------|---|----------------|----------|----------|---|----------|----------|----------|----------|----------|---|
| C          | laim             | Τ                 | Date         |   |                |          |          |   |          |          |          |          |          |   |
| Final      | Original         | 2000              | 3            |   | a              |          | Ī        |   | Ī        | T        |          |          |          |   |
| -          |                  | 10                | 4            | • | 0.             | 4        | _        |   | -        | 4        | _        |          | 1        | _ |
| $\vdash$   | + ;              | Η.                | +            |   | =              | +        | -        | _ | ╀        | +        | _        | <u> </u> | ╁        | 4 |
| -          | 1 2              | ╌┼╁               | +            |   | H              | ╀        | -        |   | ╀        | +        | 4        | _        | ╀        | - |
| -          | 1<br>2<br>3<br>4 | ╌┼╂               | ╁            | _ | <del>ا</del> چ | +        | +        | - | ╀        | +        | 4        |          | ╀        | 4 |
| -          | -                | H                 | +            | _ | 1              | +        | +        |   | ╁┈       | +        | -        | -        | ╁        | ┥ |
|            | 5                | +1                | +            | - | Н              | ╁        | +        |   | ╁        | ╀        | 4        | _        | ╁        | 4 |
| ļ —        | 7                | H                 | +            | - | Н              | +        | +        |   | ╁╌       | +        | $\dashv$ | _        | +        | ┨ |
|            | 8                | $\dagger \dagger$ | $^{\dagger}$ |   | +              | t        | +        |   | †-       | ╁        | 7        |          | ╁        | ┨ |
|            | 9                | ††                | $^{+}$       |   | 1              | t        | ✝        |   | 1        | t        | 1        |          | t        | ┪ |
|            | 10               | 11                | †-           | 7 | =              | T        | 1        |   | Г        | T        | 7        |          | T        | ┪ |
|            | 11               | $\parallel$       |              |   | 2              | 1        | 1        |   |          | T        | 7        |          | T        | ٦ |
|            | 12               | $ lap{I}$         | Ι            |   |                |          | Ţ        |   |          | T        |          |          | T        | ٦ |
|            | 13               | V                 | 1            |   | =              | L        | Ι        |   |          |          |          |          |          |   |
| <u> </u>   | 14               | L                 | $\perp$      | 4 |                | L        | 1        |   | L        | L        | 1        |          |          | _ |
| ļ          | 15               | ┖                 | -            | 4 |                | L        | 4        | _ | _        | ╀        |          |          | L        | 1 |
| ļ          | 16               | ↓_                | ╀            | 4 |                | ┡        | 4        |   | _        | ╀        | 4        |          | ┡        | 4 |
| -          | 17               | +                 | ╀            | 4 |                | L        | 4.       |   |          | 1        | 4        |          | L        | 4 |
| -          | 18<br>19         | ╀                 | ╀            | 4 |                | ╀        | +        | - | _        | +        | +        | <u>.</u> | -        | 4 |
| $\vdash$   | 20               | ╁                 | ╀            | + |                | ⊦        | +        | _ | _        | ╁        | +        | _        | ├        | 4 |
|            | 21               | H                 | 十            | + |                | ┝        | +        | - | _        | ╁        | +        | _        | -        | ┪ |
|            | 22               | t                 | t            | + |                | Н        | +        | 7 | -        | ╁╴       | +        | _        | ┢        | 1 |
|            | 23               | T                 | †            | † |                | Т        | †        |   |          | ✝        | †        |          | H        | 1 |
|            | 24               | T                 | 1            | 1 |                |          | Ť        |   |          | T        | †        |          | T        | 1 |
|            | 25               |                   |              | 1 |                |          | T        |   |          | T        | Ť        |          |          | 1 |
|            | 26               |                   | L            | I |                |          | Ι        |   |          |          | Ι        |          |          | ] |
|            | 27               | L                 | L            | 1 |                | <u> </u> | L        | ┙ |          | L        | 1        |          |          | ] |
| <u> </u>   | 28               | L                 | ↓_           | 4 |                | L        | 1        | 4 |          | ╙        | 4        | _        | ļ        |   |
| -          | 29               | -                 | ↓_           | 4 | _              | _        | 1        | 4 |          | L        | 1        | _        |          | 1 |
|            | 30<br>31         | ⊢                 | $\vdash$     | + | _              |          | ╀        | - |          | L        | 1        |          | _        | 4 |
| }          | 32               | $\vdash$          | ⊢            | + | -              | _        | ╀        | + | <u>,</u> | -        | ╀        | 4        | _        | 1 |
| <u> </u>   | 33               | $\vdash$          | ╁╴           | t |                |          | ╀╌       | ┪ |          | $\vdash$ | ╁        | $\dashv$ | _        | 1 |
| <b>—</b>   | 34               | H                 | +            | t |                |          | ╁        | + | _        | $\vdash$ | ╁        | 1        | —        | ┨ |
|            | 35               |                   |              | Ť |                |          | T        | † | _        | 1        | t        | 7        | _        | 1 |
|            | 36               |                   |              | T | $\neg$         |          | T        | 1 |          |          | T        | 7        |          | 1 |
|            | 37               |                   |              | I |                |          | L        | I |          | L        |          |          |          |   |
| $\square$  | 38               |                   | _            | L |                |          | L        | 1 |          |          | L        |          |          |   |
| $\vdash$   | 39               |                   |              | ļ | _              |          | Ļ        | 1 |          | _        | L        | 4        |          |   |
| <b> </b> i | 40               |                   | _            | ļ | 4              |          | L        | 1 |          | ļ.,      | L        | 4        |          |   |
| -          | 41               |                   | _            | ╀ | 4              |          | -        | 4 |          | _        | L        | 4        |          |   |
|            | 42<br>43         |                   | _            | ╀ | -              |          | ╀        | + | _        |          | ╀        | 4        |          |   |
|            | 44               |                   |              | ╁ | +              |          | H        | + | $\dashv$ |          | ┞        | +        |          |   |
| ┝─┤        | 45               |                   |              | 1 | -+             |          | $\vdash$ | + | $\dashv$ | _        | ┝        | +        | -        | ĺ |
| <b> </b>   | 46               |                   |              | + | +              |          | -        | + | -        | _        | $\vdash$ | +        |          |   |
|            | 47               | $\exists$         | -            | T | 7              |          | Т        | † |          |          | Η        | +        | $\dashv$ |   |
|            | 48               | _1                |              | Γ | 1              |          |          | 1 |          |          | Г        | †        | $\dashv$ |   |
|            | 49               |                   |              | Ĺ |                |          |          | I |          |          |          | Ī        |          |   |
|            | 50               |                   |              | ſ | T              |          |          | T | T        |          |          | T        | ٦        |   |

|   | _        | _              | _        | _       |          | _            |   | _        |          | _        |          | _        | _         | _            |                |   |          |   |
|---|----------|----------------|----------|---------|----------|--------------|---|----------|----------|----------|----------|----------|-----------|--------------|----------------|---|----------|---|
|   | Final    | Original       |          |         |          |              |   |          |          |          |          |          |           |              |                |   |          |   |
|   |          | 5              | ΠŤ       |         | Г        | _            | Г |          | Г        |          | t        | 1        | _         | †            | ┪              | _ | ✝        |   |
|   |          | 52             | 2        |         | r        | 7            | Т |          | H        |          | r        | 7        | _         | $^{\dagger}$ | 7              | _ | +        | _ |
| ĺ |          | 53             | 1        |         | Г        |              |   |          | Г        |          | ┢        | 7        | _         | T            | 7              | _ | 7        | _ |
|   |          | 54             | ī        |         | Г        | ٦            | Т | _        | -        | _        | r        | ┪        | _         | t            | 7              |   | 1        | _ |
|   |          | 55             | ,        |         | Г        | ٦            | _ | ٦        | _        | _        | H        | 1        |           | †            | 1              |   | +        |   |
|   |          | 5€             | ;        | _       | Т        | ٦            |   | 7        |          |          | T        | 1        |           | †-           | ┪              | _ | †        |   |
|   |          | 57             | 1        |         |          | ٦            |   | ٦        |          |          | Г        | 1        | _         | 十            | 7              | _ | 1        | _ |
| ſ |          | 58             | П        |         |          | ٦            |   | 7        |          |          | _        | 7        |           | T            | 7              |   | 1        | _ |
| 1 |          | 59             | Т        |         |          | 1            |   | 7        |          |          |          | 7        | _         | T            | 7              | _ | T        | _ |
|   |          | 60             |          |         |          |              |   | 1        |          |          | -        | 1        |           | 1            | 7              |   | T        | _ |
|   |          | 61             |          |         |          | ī            | _ | 7        |          |          |          | 1        |           | Τ            | 1              |   | 7        |   |
|   |          | 62             | Ι        |         |          | I            |   | T        |          |          |          | T        |           | Γ            | T              |   | T        | _ |
|   |          | 63             | Τ        | T       |          | Ī            |   | 1        |          | 7        | _        | T        |           | T            | 1              |   | T        | - |
| [ |          | 64             | Ī        | Ţ       |          | 1            |   | 1        |          | 1        |          | 1        |           | 1            | 1              |   | T        |   |
|   |          | 65             | Τ        |         |          | 7            |   | Т        |          | 1        | _        | 7        |           | Τ            | T              |   | T        |   |
|   |          | 66             | Ι        | $\Box$  |          | Ī            |   | 1        |          | ٦        |          | T        |           | Γ            | 7              |   | 1        |   |
| L |          | 67             | $\perp$  |         |          | Ι            |   | Ι        |          | I        |          | Ι        |           | Г            | T              |   | Τ        |   |
|   |          | 68             | T        |         |          |              |   | 1        |          | T        |          | T        |           | Г            | T              |   | T        | _ |
|   |          | 69             |          | I       |          | T            |   | T        |          | 1        |          | T        |           | Γ            | 1              |   | T        |   |
| L |          | 70<br>71       |          | $\perp$ |          |              |   | Ι        |          | I        |          | T        |           | Г            | T              |   | Τ        |   |
| 1 |          | 71             | L        |         |          | 1            |   |          |          |          |          | I        |           |              | Ι              |   | Τ        |   |
| L |          | 72             |          |         |          |              |   |          |          | Ι        |          | Γ        |           |              |                | _ | Τ        |   |
| Ļ |          | 72<br>73<br>74 | L        |         |          | Ι            |   |          |          | I        |          | Ι        |           |              | Ι              |   | Γ        | ٦ |
| Ĺ |          | 74             | I        | 1       |          | Ι            |   | Ι        |          |          |          | Ι        |           |              | T              |   | Γ        |   |
| L |          | 75<br>76       | L        | ┙       |          | 1            | _ | 1        | _        | I        |          |          |           |              |                |   |          |   |
| L |          | 76             | Ļ        | 1       |          | ⊥            |   | l        |          | 1        | _        | $\perp$  | •         |              |                | _ | Γ        |   |
|   |          | 77             | Ļ        | 4       | _        | ↓            |   | 1        |          | 1        | _        | L        |           |              | L              |   | L        |   |
| L |          | 78<br>79       | $\perp$  | 1       |          | 1            | _ | 1        | _        | 1        |          | L        |           | L            | ┵              |   | L        | ╛ |
| L |          | 79             | L        | 4       | _        | 1            | _ | ļ        |          | ļ        |          | L        | _         |              | 1              |   | L        |   |
| L |          | 80             | ╀        | 4       |          | $\downarrow$ |   | ļ        |          | 1        |          | L        |           |              | ↓              | _ | L        | ┙ |
| L |          | 81             | Ļ        | 1       |          | Ļ            |   | ļ        |          | 1        | _        | Ļ        |           |              | L              | _ | L        | ╝ |
| ŀ |          | 82             | ╀        | 1       |          | ╀            |   | ╀        | _        | ļ        |          | Ļ        | _         |              | Ļ              |   | L        | ┙ |
| F |          | 83             | Ļ        | 4       | _        | 1            | _ | Ļ        | _        | ļ.       | _        | L        | 4         | _            | ↓              | _ | L        |   |
| Ł |          | 84             | <b> </b> | 4       | _        | ╀            | _ | Ļ        | _        | Ļ        |          | Ļ        | 4         |              | 1              | _ | Ľ        | ↲ |
| H |          | 85             | ╄-       | ╀       |          | ╀            | _ | Ļ        |          | L        |          | L        | 4         |              | Ļ              | _ | L        | 4 |
| H |          | 86             | ╀        | +       | _        | L            |   | ╀        | _        | Ļ        | _        | Ļ.       | 4         | _            | 1              | _ | <u> </u> | ↲ |
| H |          | 87             | ├        | ╁       |          | ╀            |   | ╀        |          | ╀        | _        | Ļ.       | 4         | _            | Ł              | 4 | -        | 4 |
| H |          | 88<br>89       | ┝        | ╀       | _        | ╀            | _ | ╀        |          | ŀ        | _        | H        | 4         |              | ╀              | 4 | -        | 4 |
| H | _        | 90             | -        | ╀       | -        | ┞            |   | ┞        | _        | H        | _        | ┞        | 4         |              | +-             | - | -        | 4 |
| H |          | 91             | -        | ╀       |          | H            | _ | ⊦        |          | ┞        |          | ⊢        | ┥         | _            | ╀╌             | 4 | L        | 4 |
| H |          | 92             | ╀        | ╀       |          | Ͱ            | _ | ┝        | -        | ┞        | _        | H        | 4         |              | ╀              | 4 |          | 4 |
| H |          | 93             | ╁        | ╁       | -        | -            | 4 | $\vdash$ | 4        | $\vdash$ | -        | ⊦        | +         |              | +              | 4 | L        | 4 |
| H |          | 94             | 1        | +       | -        | $\vdash$     | - | $\vdash$ | 4        | $\vdash$ | -        | -        | +         |              | ۲              | 4 | _        | 4 |
| ۲ |          | 95             | $\vdash$ | +       | -        | -            | - | H        | $\dashv$ | -        | 4        | $\vdash$ | +         | _            | -              | + |          | + |
| H | $\dashv$ | 96             | -        | +       | ۲        | ┝            | - | -        | -        | ┝        | $\dashv$ | -        | +         |              | -              | + |          | + |
| H | -        | 97             |          | t       | -        | $\vdash$     | - | -        | -        | ۲        | 4        | -        | +         | _            | -              | + | -        | 1 |
|   |          | 98             | <u> </u> | +       | 1        | -            | 4 |          | 1        | _        | +        | -        | $\dagger$ | _            | ┢              | + |          | 1 |
| Н | _        | 99             | _        | 1       | ٦        | -            | ┪ | _        | +        | _        | 7        |          | +         |              | ┢              | + | -        | 1 |
|   | -1       | 100            | ⊢        | +       | $\dashv$ | ۲            | + | -        | 4        |          | -1       |          | +         | _            | <del> </del> - | + |          | Н |

| Γ        | С        | Т          | Date       |          |   |          |           |     |    |                         |   |           |           |         |        |
|----------|----------|------------|------------|----------|---|----------|-----------|-----|----|-------------------------|---|-----------|-----------|---------|--------|
| Γ        |          |            |            | I        |   | Ţ        |           |     | T  | Ť                       |   | Γ         | T         | Т       |        |
|          | Final    | Original   | - 1        |          |   |          |           |     |    |                         |   |           |           |         |        |
|          |          | 102        | 1          | 7        |   | Ť        |           | _   | †  | $\dagger$               |   | ┢         | $\dagger$ | +       |        |
| Г        |          | 102        | 21         | T        |   | Т        | ٦         |     | T  | T                       |   |           | Ť         | T       |        |
| Γ        |          | 103        | 3          | 7        | _ | T        | ╗         |     | 7  | $\top$                  |   |           | T         | 7       |        |
| Г        |          | 104        | ī          | 7        |   | T        | 7         |     | Ť  | _                       |   |           | Ť         | Ť       | _      |
|          |          | 105        | 5          | 7        |   | T        | $\exists$ | _   | 1  | $\top$                  |   |           | 1-        | 7       | _      |
|          |          | 106        | <b>i</b> T | 1        |   | Т        | П         |     | 1  | T                       |   |           | 1         | 7       |        |
|          |          | 107        | <u>'</u>   | Ι        |   | Ι        |           |     | Τ  | T                       |   |           | Τ         | T       |        |
| L        |          | 108        | 3          | Ι        |   |          |           |     | L  |                         |   | _         | T         | T       | ╗      |
| L        |          | 109        |            |          |   | L        | Ι         |     | Ι  | Τ                       |   |           |           | T       | ٦      |
| L        |          | 110        |            | 1        |   | L        |           |     | L  |                         |   |           |           | T       | $\neg$ |
| L        |          | 111        | ┸          | 1        |   |          | 1         |     | L  | $\perp$                 |   |           |           | $\prod$ |        |
| L        |          | 112        | <u> </u>   | ┙        |   | L        | ⅃         |     | L  |                         |   |           | Γ         | Т       |        |
| L        |          | 113        | 4          |          |   |          | $\prod$   | _   | L  | $oldsymbol{\mathbb{I}}$ | J | _         | Γ         | Ι       |        |
| L        |          | 114        | ┸          | 1        | _ | L        | 1         | _   | L  | L                       |   |           | L         |         |        |
| L        |          | 115        | 1_         | $\perp$  |   | L        | ┙         |     | L  |                         |   |           | Ι         | Ι       |        |
| L        |          | 116        | L          | ┵        |   | L        | $\perp$   | _   | L  | $\perp$                 |   |           | Γ         | Ι       | ]      |
| L        | _        | 117        | 1          | ┸        |   | L        | 4         |     | L  |                         |   |           | L         |         |        |
| L        |          | 118        | $\perp$    | 1        | _ | L        | 1         |     | L  | L                       | _ |           | L         |         |        |
| L        |          | 119        | 1          | 1        |   | L        | 1         |     | L  | ┸                       | 4 |           | L         |         | ╝      |
| _        | _        | 120<br>121 | ╀          | 4        |   | L        | 4         |     | L  | $\perp$                 | 4 |           | L         | L       | ╛      |
| -        | _        | 121        | 1          | ↓        | _ | L        | 4         |     | L  | 1                       | 4 |           | L         | ┸       | ╝      |
| ⊣        |          | 122        | ╀-         | +        |   | L        | 4         |     | L  | 1                       | 4 |           | L         | 1       | 4      |
| L        | -        | 123<br>124 | ╀          | +        | _ | ļ.,      | 4         |     | L  | 4                       | 4 | _         |           | 1       | 4      |
| $\vdash$ | $\dashv$ | 124        | ╁          | ╀        |   | ļ.,      | +         |     | ┡  | ╀                       | 4 | _         | L         | ╀       | 4      |
| ┝        |          | 125<br>126 | ╁          | ╀        |   | ╀        | +         | _   | L  | ╀                       | + | _         | $\vdash$  | ╀       | 4      |
| -        | $\neg$   | 127        | ╁          | ╀        | - | ┝        | +         |     | ⊢  | +-                      | + |           | ┝         | +       | 4      |
| $\vdash$ |          | 128        | ╁          | ╁        | - | ┝        | ╁         | _   | -  | ╁                       | + |           | ⊢         | +       | 4      |
|          | -        | 129        | ╁          | ╁        | - | ⊢        | ╁         |     | ┝  | ╁╌                      | + | _         | -         | ╀       | 4      |
| H        | _        | 130        | ┼          | ╁        |   | H        | ╁         |     | -  | ╁╌                      | ╁ |           | ┝         | ╁       | ┨      |
| ┝        | 7        | 131        | ╁          | ╁        | _ | -        | +         |     | ┝╌ | ╁                       | ╁ | -         | -         | ╁╌      | +      |
| Г        | 7        | 132        | 1-         | t        | 7 | $\vdash$ | $^{+}$    | _   | H  | ╁╴                      | + | _         | -         | ╁       | ┨      |
| _        | _        | 133        | T          | †        | 7 | H        | t         |     | _  | +                       | + | _         | Н         | ╁       | 1      |
| Γ        |          | 134        |            | T        |   | -        | t         | _   |    | $\vdash$                | + |           | -         | t       | 1      |
| Г        | П        | 135<br>136 |            | Τ        |   |          | T         |     |    | T                       | † | ᅥ         |           | T       | 7      |
|          |          | 136        |            |          |   |          | Τ         |     |    | Γ                       | 1 | T         |           | T       | 7      |
|          |          | 137        | Ŀ          | Γ        |   |          | Γ         |     |    |                         | Ť |           |           | Т       | 1      |
|          |          | 138        | L          |          |   |          | L         |     |    |                         | Τ |           |           | 1       | 1      |
| L        | 4        | 139        | L          | L        | ⅃ |          | L         |     |    |                         | Τ |           |           |         | 7      |
|          | _        | 140        | _          | L        | 1 |          | L         |     |    |                         | L |           |           |         | ]      |
| _        | _        | 141        | _          | L        | ⇃ |          | L         |     |    | L                       | L |           |           |         |        |
| <u> </u> | _        | 142        | <u> </u>   | L        | 4 | _        | L         | _[  |    | Ĺ                       | L | $\rfloor$ |           |         | 1      |
| _        |          | 143        | <u> </u>   | L        | 4 |          | L         | 4   |    | L                       | Ļ | 4         |           | L_      | 1      |
| _        |          | 144        | <u> </u>   | L        | 4 | _        | 1         | 4   |    | _                       | Ļ | 4         | _         | L       | 1      |
|          |          | 145        | _          | L        | 4 |          | 1         | 4   |    | <u> </u>                | L | 4         |           | L.      | 1      |
|          |          | 146        | <b>-</b>   | L        | 4 |          | $\vdash$  | 4   |    | ├-                      | 1 | 4         | _         | L       | 4      |
|          |          | 147<br>148 | <u> </u>   | _        | + | _        | H         | +   |    | ļ                       | 1 | 4         |           |         | 1      |
|          |          | 148        | _          | $\vdash$ | + |          | $\vdash$  | +   | -  | -                       | ╀ | +         | _         | _       | -      |
| -        | -        | 150        | -          | -        | + | _        | -         | +   |    |                         | ╀ | +         | -         |         | 1      |
|          | !        |            |            |          | 1 |          | 1         | - 1 |    |                         | 1 | - 1       | - 1       |         | 1      |